

# Curecanti National Recreation Area Black Canyon of the Gunnison National Monument Outreach Education

Grade 5 pre-visit "Habitats and Satellites"



## Review

A habitat for animals must provide: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

If any of these four items change, animals will: \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_.

Plants can only: \_\_\_\_\_ or \_\_\_\_\_.

The "Keys" to life are: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

## Vocabulary Words

**habitat** The native environment that is natural for the life and growth of an animal or plant.

**niche** The position or function of an organism in a community of plants and animals.

**community** The plant and animal populations occupying a given area.

**ecosystem** A system formed by the interaction of a community of organisms with their environment.

**environment** The sum of surrounding things, conditions or influences.

**adaptation** Any alteration in the structure or function of an organism or any of its parts by which the organism becomes better fitted to survive its environment.

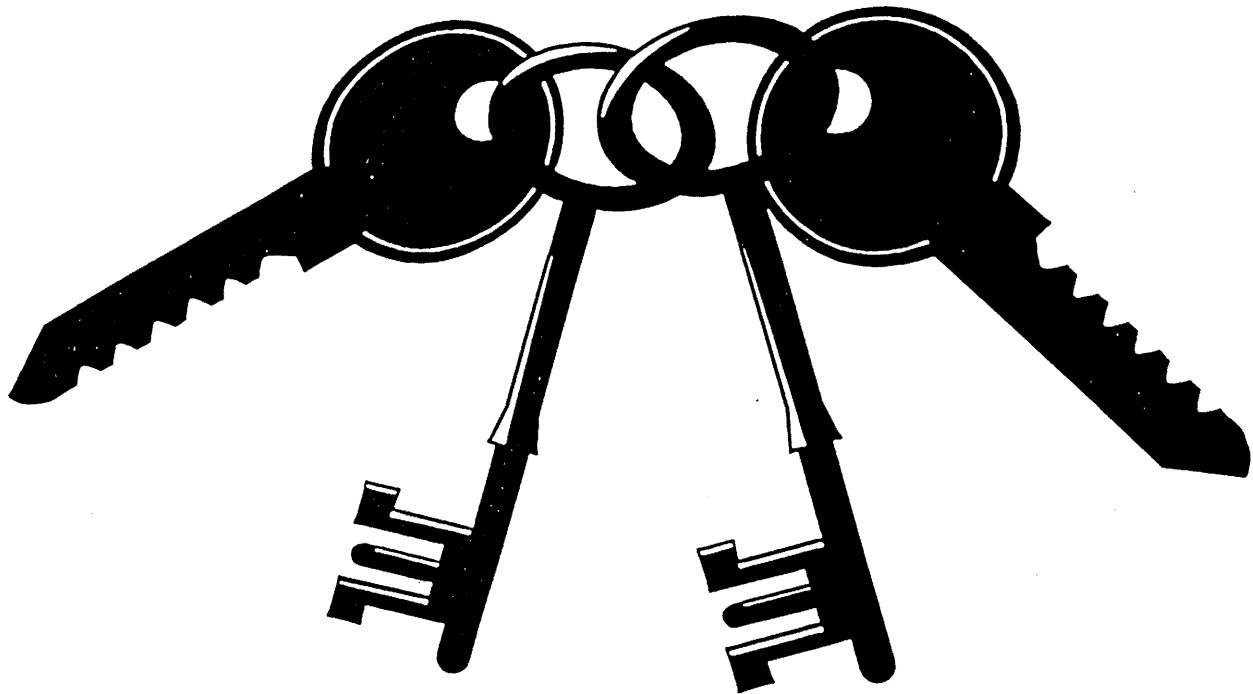
**producer** Any organism that takes the sun's energy and produces food energy or potential energy through a process called photosynthesis.

**consumer** An organism that gets its energy from plants or other animals. Consumers cannot make their own food.

Curecanti National Recreation Area  
Black Canyon of the Gunnison  
National Monument  
Outreach Education  
Grade 5 Post-visit activity



"KEYS TO LIFE"



Light                      Air                      Water                      Soil

With the rangers from Curecanti National Recreation Area you learned about how plants make FOOD for themselves using  
LIGHT  
AIR  
WATER  
SOIL

Like plants, people need food to provide them with energy.

\* When you sit down to dinner with your family make a list of all the plants you eat, such as: lettuce, broccoli, potatoes, apples and strawberries.

potatoes

\* Ask your family what they would eat if they did not eat plants?

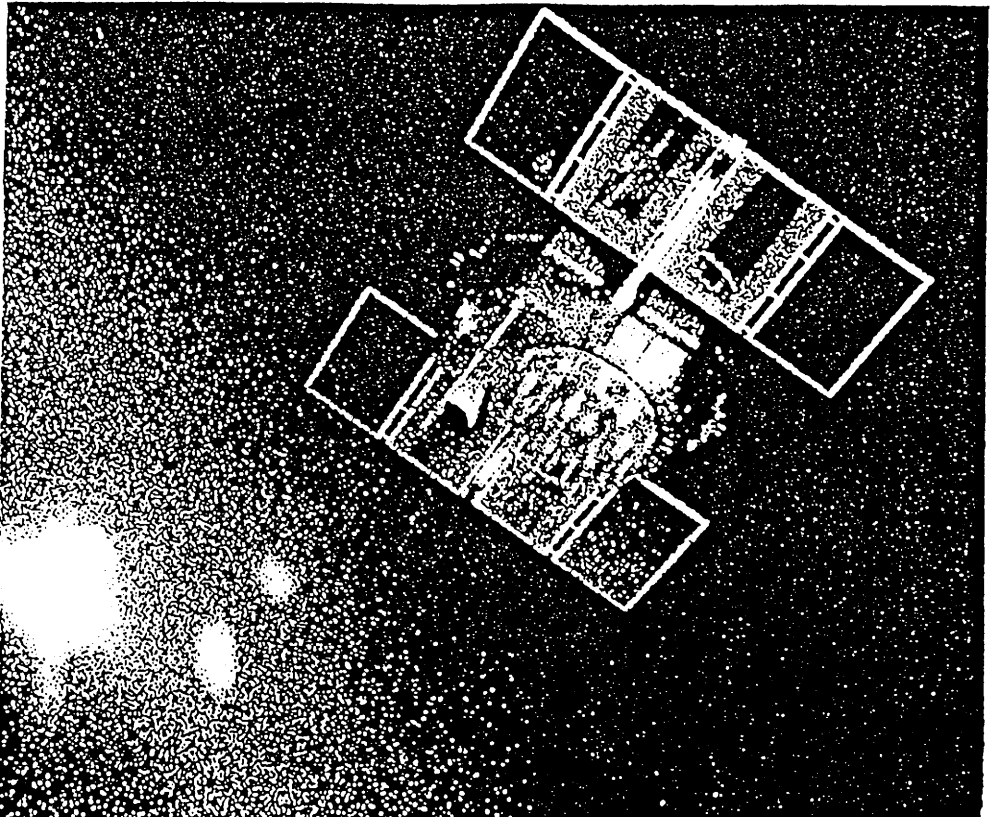
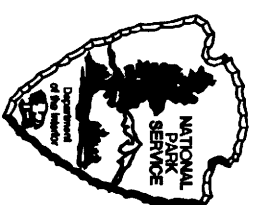
hamburgers - without a bun

\* So what do the animals that we eat, eat ?

cattle eat -	chickens eat -



# Curecanti National Recreation Area Black Canyon of the Gunnison National Monument Outreach Education



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## *GPS Satellites*

Name: NAVSTAR

Manufacturer: Rockwell International

Altitude: 10,900 nautical miles

Weight: 1900 lbs (in orbit)

Size: 17 ft with solar panels extended

Orbital Period: 12 hours

Orbital Plane: 55° to equatorial plane

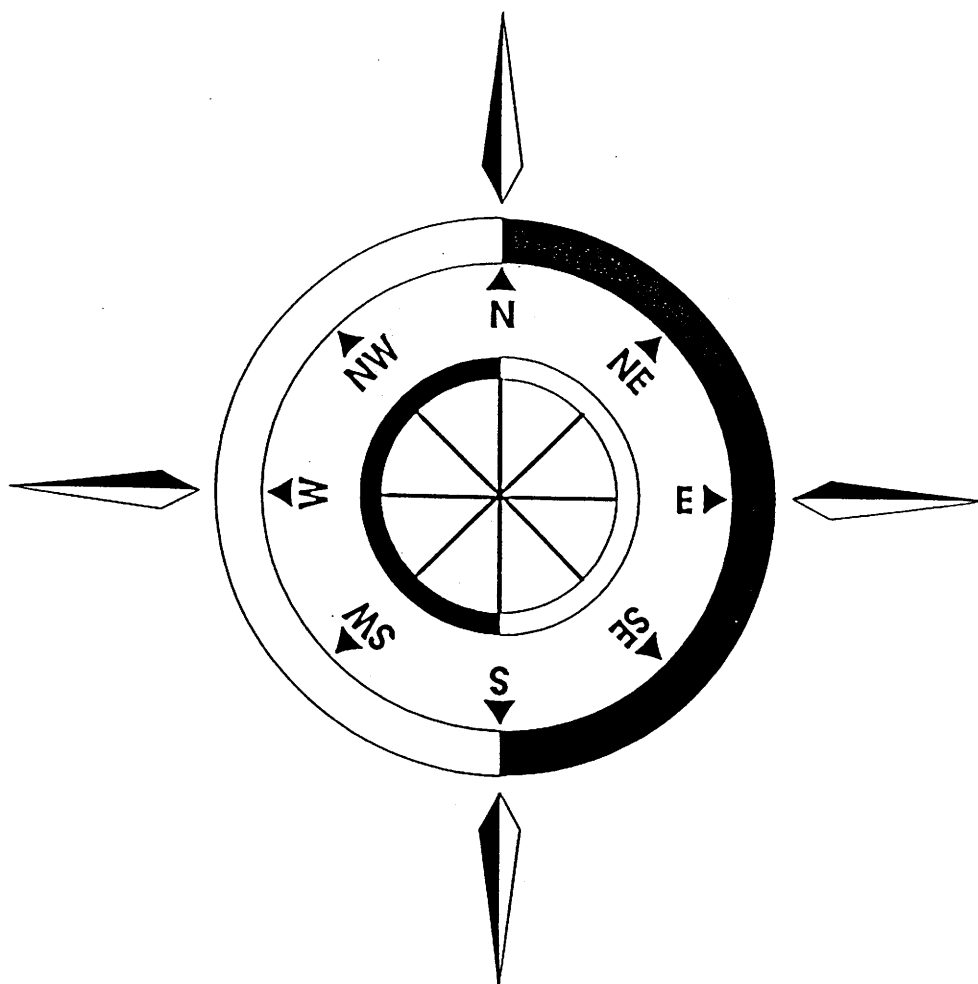
Planned Lifespan: 7.5 years

Number built: 11 Block I prototype  
satellites 28 Block II production  
satellites

Constellation: 24 satellites



# Curecanti National Recreation Area Environmental Education Program



SATELLITE

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AZIMUTH

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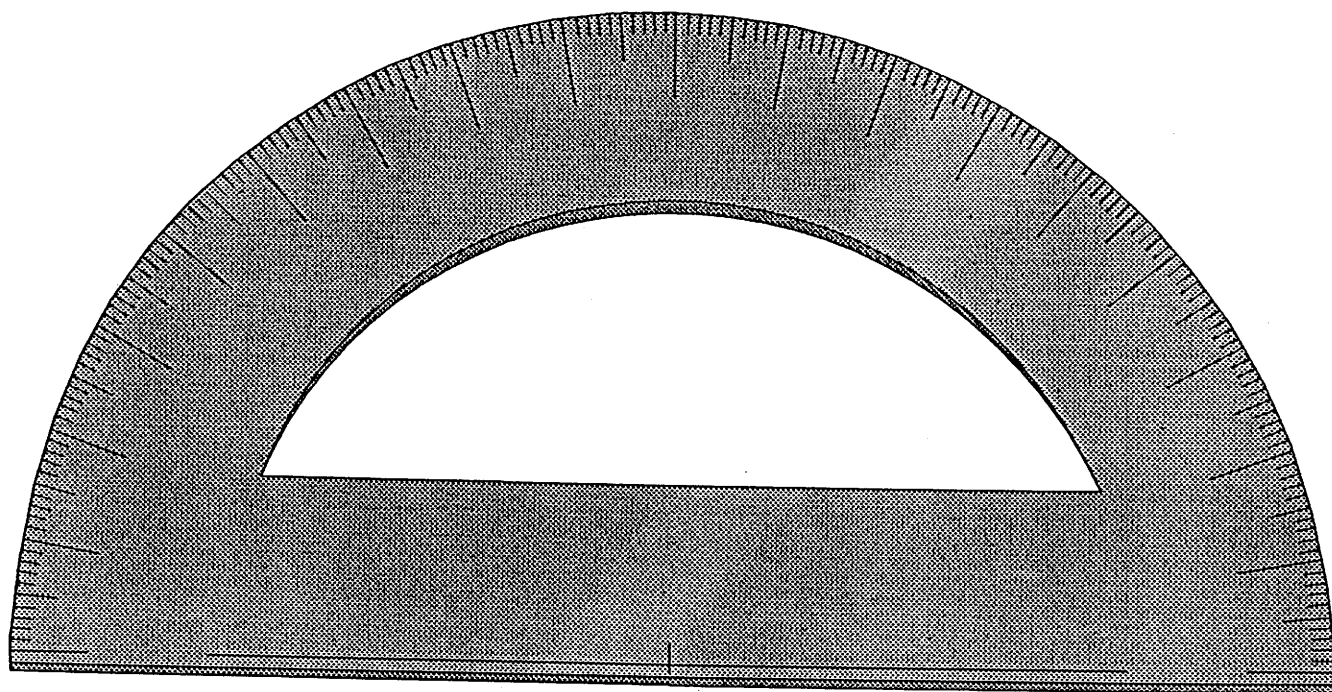
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# Curecanti National Recreation Area Environmental Education Program



Satellite

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Elevation

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**decomposer** Any organism that separates or resolves matter into parts or elements. It decays.

**population** The gathering of plants or animals living in a given area

**carrying capacity** The point at which no major increase in a population can occur due to limiting factors in the environment such as space or food.

**threatened species** Bird or animal populations that are not at healthy levels.

**endangered species** Species who are in danger of being extinct.

**GPS (Global Positioning System)** A unit used to determine one's location or the location of a certain point or area by using the signals from satellites.

**GIS (Geographical Information System)** A computer program developed by the military to study different terrain and pinpoint locations.

**Cairn** A heap of stones set up as a landmark.

**Compass** An instrument for determining directions, as by means of a freely rotating magnetized needle that indicates magnetic north.

**Sextant** An astronomical instrument used for measuring angular distances of planetary bodies in determining latitude and longitude.

**Atmosphere** The gaseous envelope surrounding the earth; the air.

**Ionosphere** The region of the earth's atmosphere between the stratosphere and the exosphere consisting of several layers and extending about 50-250 miles above the surface of the earth.

**Satellites** A human made device launched from the earth into orbit around the earth (or sun or other planet).

**Triangulation** A technique for establishing the distance between two points by using a triangle.

**Nanosecond** One billionth of a second.